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(72)Inventor: MOCHIZUKI KOJI

OZEKI MASASHI

(54) MANUFACTURE OF SEMICONDUCTOR DEVICE

(57) Abstract:

PURPOSE: To enable adsorption formation of excess—free Ga atomic layer by restraining taking—in of C atom which becomes impurity by adsorbing Ga atom mainly through TEG and by adsorbing lacking Ga atoms through TMG.

CONSTITUTION: When a Ga atomic layer is adsorbed to an atomic plane of a substrate, a Ga atom amount which does not cause Ga adsorption in excess of one atomic layer is adsorbed at first using triethylgallium (TEG) as a raw material. Then, lacking Ga atoms are adsorbed to one atomic layer at Ga atomic layer to complete a Ga layer of one atomic layer using trimethylgallium(TMG) as a raw material. Arsine is used as a raw material of As in the growth of GaAs, and As which is another element to constitute compound semiconductor is suppled. Adsorption formation of excess—free Ga atomic layer can be realized in this way.

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